

ABSTRACT OF THE DISCLOSURE

A peritoneal dialysis solution that is biochemically balanced to correct metabolic acidosis associated with chronic renal failure in a more physiological manner.

5 The peritoneal dialysis solution has a physiological pH, e.g., pH of 7.0 to 7.4, and contains bicarbonate at a concentration that is found in ^{normal 6/29/94} ~~blood involved in~~ ^{WPA 6/30/94} ~~diffusive transport of solutes with dialysis fluid.~~
Additionally, the solution contains carbon dioxide at a
10 partial pressure that is similar to partial pressure of ^{normal 6/29/94} ~~the blood~~ ^{WPA 6/30/94} ~~capillaries.~~ The peritoneal dialysis solution also contains a weak acid with a pKa of less than 5.0.